

MTH 442/542 SPRING TERM 2008

HOMEWORK 2. DUE **Monday, Apr. 14** IN CLASS.

A. All students

1.) p. 22 # 1.4.1

2.) p. 22 # 1.4.9

3.) p. 23. # 1.4.10

4.) p. 25. # 1.4.18

5.) Maple: Write a program that accepts as input a positive integer N and prints out the quotients of $x^i - y^i$ by $x - y$ for i from 2 to N . You must use `divide(somePoly, byAnother, 'q')`; in a loop. It will be important to *unassign* the value of `q`; one way to do this is to write `q := 'q'`; — be careful about the type of quotation marks used!

B. 542 only

p. 23 # 1.4.14